

Application No. 09/913,448

Filed: 8/14/01

Group Art Unit: 1774

ADDED CLAIMS 11-20

11. A process for treating a fiber consisting of:

a. applying to said fiber a solid mixture to form a treated fiber, said solid mixture comprising

1. one or more materials from the group consisting of cyclodextrins, cyclodextrin derivatives, inclusion complexes of cyclodextrins, and inclusion complexes of cyclodextrin derivatives, and

2. one or more materials selected from the group consisting of poly(carboxylic) acids and poly(carboxylic) acid anhydrides;

b. heating said treated fiber to a temperature between 150-220C.;

c. washing said treated fiber with water; and

d. drying said treated fiber.

12. The process of claim 11 wherein said fiber has been formed into a material selected from the group consisting of yarn, woven textile material, knitted textile material, non-woven textile material, paper, leather and wood fiber-based material.

13. The process of claim 11 wherein said solid mixture further comprises a catalyst.

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14. The process of claim 11 wherein

a. said fiber is impregnated with an aqueous solution of said mixture, and

b. said impregnated fiber is dried.

15. The process of claim 14 wherein said mixture further comprises a catalyst.

16. The process of claim 11 wherein said treated fiber is dried at a temperature of 40-150C before heating.

17. The process of claim 16 wherein said treated material is dried at approximately 110C.

18. The fiber of claim 7, wherein [CD] is selected from the group consisting of

(a) a hydroxypropyl, methyl or acetyl derivative of α -cyclodextrin,

(b) a hydroxypropyl, methyl or acetyl derivative of β -cyclodextrin,

(c) a hydroxypropyl, methyl or acetyl derivative of γ -cyclodextrin,

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(d) an inclusion complex of said cyclodextrins and

(e) an inclusion complex of said cyclodextrin derivatives.

19. The fiber of claim 8, wherein [CD] is selected from the group consisting of

(a) a hydroxypropyl, methyl or acetyl derivative of α -cyclodextrin,

(b) a hydroxypropyl, methyl or acetyl derivative of β -cyclodextrin,

(c) a hydroxypropyl, methyl or acetyl derivative of γ -cyclodextrin,

(d) an inclusion complex of said cyclodextrins and

(e) an inclusion complex of said cyclodextrin derivatives.

20. The fiber of claim 9 wherein said poly(carboxylic) acid is selected from the group consisting of Y*.